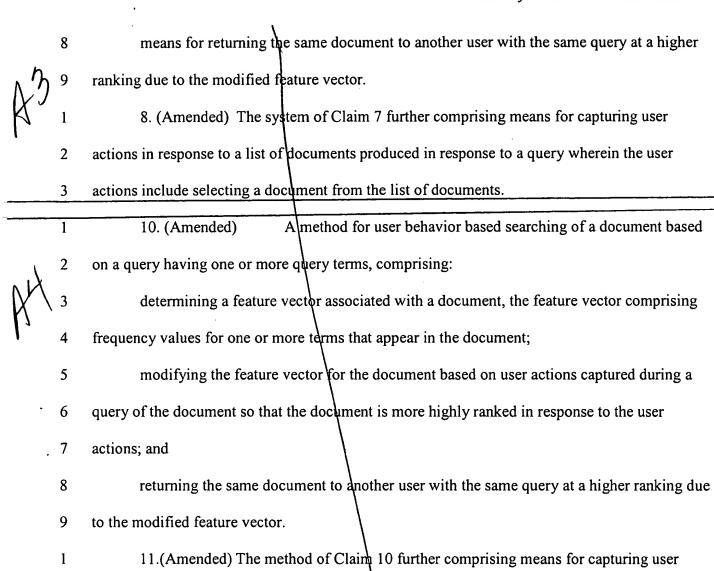4   means for modifying the feature vector for the document based on user actions captured

5   during a search session so that the document is more highly ranked in response to the user

6   actions.

1   2. (Amended) The system of Claim 1 further comprising means for capturing user

2   actions in response to a list of documents produced in response to a query wherein the user

3   actions include selecting a document from the list of documents.

1   4.(Amended)   A method for user behavior based ranking of a document, comprising:

2   determining a feature vector associated with a document, the feature vector comprising

3   weights for one or more terms that appear in the document; and

4   modifying the feature vector for the document based on user actions captured during a

5   query of the document so that the document is more highly ranked in response to the user

6   actions.

1   5.(Amended)   The method of Claim 4 further comprising means for capturing user

2   actions in response to a list of documents produced in response to a query wherein the user

3   actions include selecting a document from the list of documents.

1   7.(Amended)   A system for user behavior based searching of a document based on a

2   query having one or more query terms, comprising:

3   means for determining a feature vector associated with a document, the feature vector

4   comprising weights for certain terms that appear in the document;

5   means for modifying the feature vector for the document based on user actions captured

6   during a query of the document so that the document is more highly ranked in response to the

7   user actions; and

8   means for returning the same document to another user with the same query at a higher

9   ranking due to the modified feature vector.

1   8. (Amended) The system of Claim 7 further comprising means for capturing user

2   actions in response to a list of documents produced in response to a query wherein the user

3   actions include selecting a document from the list of documents.

1   10. (Amended)   A method for user behavior based searching of a document based

2   on a query having one or more query terms, comprising:

3   determining a feature vector associated with a document, the feature vector comprising

4   frequency values for one or more terms that appear in the document;

5   modifying the feature vector for the document based on user actions captured during a

6   query of the document so that the document is more highly ranked in response to the user

7   actions; and

8   returning the same document to another user with the same query at a higher ranking due

9   to the modified feature vector.

1   11.(Amended) The method of Claim 10 further comprising means for capturing user

2   actions in response to a list of documents produced in response to a query wherein the user

3   actions include selecting a document from the list of documents.

Please add new Claims 13- 26:

1   13.   A computer implemented method for user behavior based ranking of a document,

2   the method comprising:

3   ranking a document based on a feature vector of the document, the feature vector

4   comprising frequency values for one or more terms that appear in the document;

5   sampling user search behavior; and

6   updating the feature vector of the document based on the sampled user search behavior so

7   that the rank of the document is changed based on the user sampled user search behavior.

1   14.   The method of Claim 13, wherein the sampling further comprises generating a

2   sample of the user behavior wherein the sample of the user behavior further comprises a query

3   feature vector of the terms in a particular query and the feature vector of the one or more

4   documents returned based on the query and viewed by the user.

1   15.   The method of Claim 14, wherein the sample generating further comprises

2   generating a sample during a sampling frequency.

1   16.   The method of Claim 13, wherein the updating further comprises combining the

2   feature vector of the document with a feature vector of the query, the feature vector comprising

3   frequency values for one or more terms that appear in the query.

1   17.   The method of Claim 16, wherein the updating further comprising scaling the

2   query feature vector based on the viewing time of the document by the user during the sampled

3   user behavior to generate a scaled query feature vector.

1   18.   The method of Claim 17, wherein the scaling further comprises generating a

2   negative scaling factor in response to a short viewing time so that the scaled query feature vector

3   is negative and the feature vector of the document is reduced and the rank of the document is

4   reduced.

1   19.   The method of Claim 17, wherein the scaling further comprises generating a

2   positive scaling factor in response to a long viewing time so that the scaled query feature vector

3   is positive and the feature vector of the document is increased and the rank of the document is

4   increased.

1   20.   A computer implemented system for user behavior based ranking of a document,

2   the system comprising one or more computer instructions, the system comprising:

3   instructions for ranking a document based on a feature vector of the document, the

4   feature vector comprising frequency values for one or more terms that appear in the document;

5   instructions for sampling user search behavior; and

6   instructions for updating the feature vector of the document based on the sampled user

7   search behavior so that the rank of the document is changed based on the user sampled user

8   search behavior.

1   21.   The system of Claim 20, wherein the sampling further comprises instructions for

2   generating a sample of the user behavior wherein the sample of the user behavior further

3   comprises a query feature vector of the terms in a particular query and the feature vector of the

4   one or more documents returned based on the query and viewed by the user.

1   22.   The system of Claim 21, wherein the sample generating further comprises

2   instructions for generating a sample during a sampling frequency.

1   23.   The system of Claim 20, wherein the updating further comprises instructions for

2   combining the feature vector of the document with a feature vector of the query, the feature

3   vector comprising frequency values for one or more terms that appear in the query.

1   24.   The system of Claim 23, wherein the updating further comprising instructions for

2   scaling the query feature vector based on the viewing time of the document by the user during

3   the sampled user behavior to generate a scaled query feature vector.

1   25.   The system of Claim 24, wherein the scaling further comprises instructions for

2   generating a negative scaling factor in response to a short viewing time so that the scaled query

3   feature vector is negative and the feature vector of the document is reduced and the rank of the

4   document is reduced.

1   26.   The system of Claim 24, wherein the scaling further comprises instructions for

2   generating a positive scaling factor in response to a long viewing time so that the scaled query

3   feature vector is positive and the feature vector of the document is increased and the rank of the

4   document is increased.